

## ABSTRACT

The present invention provides a thin film magnetic head in which a magnetic domain structure of a magnetic pole layer is controlled and fluctuation in recording magnetization caused by leaked magnetic flux generated by unintentional shift of a magnetic domain wall can be prevented. When length of a front end portion which specifying a recording track width of a recording medium, in a magnetic pole part layer is set as  $D$  and width of an upper edge positioned on a medium outflow side of a magnetic pole end surface is set as  $W$ , a dimensional ratio  $D/W$  of the length  $D$  to the width  $W$  is set so as to lie within the range of  $0 < D/W \leq 2.3$ . Since magnetic domain stability of the magnetic pole part layer is assured on the basis of the proper formation of the shape of the front end portion, leak of magnetic flux from the front end portion immediately after recording is suppressed. Therefore, occurrence of an inconvenience such as unintended erasure of information caused by the leaked magnetic flux is prevented.